

International Association of Science
and Technology for Development

5th IASTED Asian Conference on
Communication Systems
and Networks
2008

April 2-4, 2008
Langkawi, Malaysia

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571
www.proceedings.com

ISBN: 978-1-60560-629-3

Some format issues inherent in the e-media version may also appear in this print version.

Copyright © 2008 ACTA Press

ACTA Press
P.O. Box 5124
Anaheim, CA 92814-5124
USA

ACTA Press
B6, Suite #101, 2509 Dieppe Ave SW
Calgary, Alberta T3E 7J9
Canada

ACTA Press
P.O. Box 354
CH-8053 Zurich
Switzerland

Publication Code: 607

TABLE OF CONTENTS

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------|----|
| 607-061 - Dynamic Mobility Management for Next Generation All-IP Wireless Network | 1 |
| <i>S. Mitra</i> | |
| 607-130 - INPAT: An Intelligent Network Performance Analysis Tool | 7 |
| <i>M. S. Bin Abdul Aziz, Z. Ishak, N. M. Din</i> | |
| 607-089 - Design and Analysis of Resource Management Support Software for Multihoming In-Vehicle of IPV6 Network | 13 |
| <i>S. D. Adeniji, S. Khatun, R. S. A. Raja, M. A. Borhan</i> | |
| 607-135 - Signature Code Designing for OCDMA System based on Steiner System on Affine Plane | 18 |
| <i>C. Li, C. Zhang, F. Xu, Y. Zhan, Q. Xia, J. Cai, X. Li, X. Sun</i> | |
| 607-027 - Experimental Test-Bed on Security Enhancement of Route Optimization in Mobile IPv6 Wireless Networks | 22 |
| <i>A. Mehdizadeh, S. Khatun, R. S. A. Raja Abdullah, B. M. Ali, G. Kurup</i> | |
| 607-033 - Fuzzy Open-Loop Transmission Power Control for Wireless Local Area Networks | 28 |
| <i>T. Frantti</i> | |
| 607-097 - Providing Per-Station TCP Fairness in WLANs using Weighted Window Method | 35 |
| <i>M. Seyedzadegan, M. Othman</i> | |
| 607-059 - Comparison between Overlay Cognitive Radio and Underlay Cognitive Ultra Wideband Radio for Wireless Communications | 41 |
| <i>A. A. El-Saleh, M. Ismail, O. B. A. Ghafoor, A. H. Ibrahim</i> | |
| 607-124 - Architecture Level Simulation of IEEE 802.11n MAC using SystemC | 46 |
| <i>S. R. Yoon, S. C. Park</i> | |
| 607-119 - Performance Analysis of Multi-Rate IEEE 802.11 Networks over Gaussian Channel | 50 |
| <i>B. Li, L. Huang, C. H. Ke, D. J. Deng</i> | |
| 607-109 - Performance Evaluation of Priority Medium Access Control (P-MAC) for Wireless Sensor Network | 56 |
| <i>K. H. Kwong, H. G. Goh, C. Michie, I. Andonovic</i> | |
| 607-110 - A One-to-One Multi-Hop Routing Protocol for Mobile Ad-Hoc Wireless Networks | 60 |
| <i>T. Sasama, H. Masuyama</i> | |
| 607-074 - Simulated Attacks on CAN Buses: Vehicle Virus | 66 |
| <i>D. K. Nilsson, U. E. Larson</i> | |
| 607-129 - An FPGA based Co-Processor for Elliptic Curve Cryptography | 73 |
| <i>M. R. H. Fatemi, I. Jebiril, R. Salleh</i> | |
| 607-066 - Similarity-based Classification using Specific Features in Network Intrusion Detection | 78 |
| <i>A. Zainal, M. A. Maarof, S. M. Shamsuddin</i> | |
| 607-076 - A Distributed File Transfer Protocol based on P-FTP | 84 |
| <i>J. J. Liaw, C. T. Wu, L. H. Chang</i> | |

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 607-116 - An Efficient Ant Colonies Algorithm: QoS-based Load Balancing for Routing in Wireless Mesh Networks | 90 |
| <i>A. A. Moghanjoughi, S. Khatun</i> | |
| 607-023 - Generalized Multi-Protocol Label Switching-based All-Optical Network for Optical Quality Control | 94 |
| <i>A. S. Mohamad, S. Asano</i> | |
| 607-024 - Scenarios and Deployment Strategies of Path Computation Element for Inter-AS MPLS-TE | 99 |
| <i>A. S. Mohamad, S. Asano</i> | |
| 607-132 - Analysis on the Downlink Cell Capacity of TD-SCDMA System | 105 |
| <i>J. G. Kim</i> | |
| 607-117 - Improve the Signal to Noise Ratio using AND Subtraction Technique in Optical CDMA | 111 |
| <i>M. Othman, N. A. Cholan, R. Talib, E. Baharudin, M. F. M. Rejab, S. A. Aljunid, M. K. Abdullah</i> | |
| 607-114 - Implementation of Low Complexity and High Throughput Sphere Decoder | 115 |
| <i>J. Lee, H. S. Kim, S. C. Park</i> | |
| 607-039 - A Modulated Beacon Receiver Implementation for SatCom-based Broadcast Message Applications | 120 |
| <i>S. B. Park, D. W. Jang, S. K. Oh</i> | |
| 607-133 - Conformance Evaluation of the Session Control Mechanisms of an IMS Testbed | 124 |
| <i>J. M. E. Carlin</i> | |
| 607-047 - Insertion of Gaussian Dummy Sub-Carriers for PAPR Reduction in OFDM Systems | 130 |
| <i>W. F. Al-Azzo, B. M. Ali, S. Khatun, S. M. Bilfagih, N. K. Noordin</i> | |
| 607-126 - Timing Synchronization for MIMO-OFDM WLAN Systems | 134 |
| <i>T. Kim, S. C. Park</i> | |
| 607-101 - A Performance Analysis of Optimal Detection Ordering Zero-Forcing V-BLAST with Maximum a Posteriori Probability Orthogonal Frequency Division Multiplexing | 137 |
| <i>J. H. Chong, S. Khatun, B. M. Ali, N. K. Noordin, M. J. Syed</i> | |
| 607-091 - Speed Estimation in Forward Scattering Radar | 143 |
| <i>M. Salah, R. S. A. Raja Abdullah, M. F. A. Rasid, M. Khalafalla</i> | |
| 607-128 - Using Site Diversity to Mitigate Rain Fading in BFWA at 26 GHz | 149 |
| <i>Z. A. Shamsan, J. Din</i> | |
| 607-038 - Unsymmetrical Feedline for Designing an UWB Patch Antenna | 154 |
| <i>A. H. M. Zahirul Alam, R. Islam</i> | |
| 607-120 - UWB Pulse Shaping Filter Design using Hermite Rodriquez Functions | 158 |
| <i>M. A. Yusoff, Z. Zang, S. S. Abeysekera</i> | |
| 607-068 - Accumulation Function: Extend the Application of OXADM | 163 |
| <i>M. S. Ab-Rahman, A. A. Abd Rahni, M. D. Zan</i> | |
| 607-121 - Optimization of Buried Type Waveguide for Single-Mode Operation | 169 |
| <i>I. Yulianti, A. S. M. Supa'at, S. M. Idrus, A. B. Mohammad</i> | |

| | |
|-------------------------------------------------------------------------------------------------------------------------------|-----|
| 607-108 - Enhancement of Multi-Wavelength Brillouin-Erbium Fibre Laser Utilizing Optical Filters | 174 |
| <i>Z. Yusoff, M. N. M. Nasir, M. H. Al-Mansoori, H. A. Abdul Rashid, P. K. Choudhury</i> | |
| 607-040 - Complementary Unipolar Duty Cycle Division Multiplexing (CUDCDM) Technique for Wireless Communications | 180 |
| <i>A. M. Mohammadi, M. K. Abdullah, G. A. Mahdiraji, A. F. Abas, M. Mokhtar</i> | |

Author Index